

**IN THE CLAIMS:**

1. (Original) A plasma display panel in which a pair of substrates are disposed so as to oppose each other and have a discharge space therebetween and in which a dielectric protection layer including MgO and phosphor layers for red, green, and blue respectively are formed so as to face the discharge space, wherein  
none of phosphor members included in the phosphor layers contain, in a composition thereof, a Group IV element.
2. (Original) The plasma display panel of Claim 1, wherein  
none of the phosphor layers are made of a substance that contains any Group IV element.
3. (Original) A plasma display panel in which a pair of substrates are disposed so as to oppose each other and have a discharge space therebetween and in which a dielectric protection layer including MgO and phosphor layers for red, green, and blue respectively are formed so as to face the discharge space, wherein  
each of the phosphor layers contains at least one Group IV element.
4. (Original) The plasma display panel of Claim 3, wherein  
a content ratio of said at least one Group IV element in each of the phosphor layers is no larger than 5,000 mass ppm.
5. (Original) The plasma display panel of Claim 3, wherein  
a content ratio of said at least one Group IV element in each of the phosphor layers is within a range between 100 mass ppm and 5,000 mass ppm inclusive.
6. (Original) The plasma display panel of Claim 3, wherein  
a phosphor member included in at least one of the phosphor layers contains, in a composition thereof, at least one Group IV element.

7. (Original) The plasma display panel of Claim 3, wherein  
a content ratio of said at least one Group IV element in each of the phosphor layers is  
within a range between 100 mass ppm and 50,000 mass ppm inclusive, and  
the content ratio is substantially same for all of the phosphor layers.
8. (Original) The plasma display panel of Claim 7, wherein  
variations among the phosphor layers with respect to the content ratio of said at least one  
Group IV element are no larger than 20,000 mass ppm.
9. (Original) The plasma display panel of Claim 7, wherein  
for each of the phosphor layers, a phosphor member containing, in a composition  
thereof, at least one Group IV element is selected so as to be included in the phosphor layer.
10. (Original) The plasma display panel of Claim 9, wherein  
said at least one Group IV element contained in the composition of the phosphor  
member is in common with all of the phosphor layers.
11. (Currently Amended) The plasma display panel of ~~one of Claims 1 and 3~~ Claim 1,  
wherein said Group IV element is Si.
12. (Original) The plasma display panel of Claim 11, wherein  
compositions of the phosphor members are  $\text{Y}_2\text{SiO}_5\text{:Eu}$  for red,  $\text{Zn}_2\text{SiO}_4\text{:Mn}$  for green,  
and  $\text{Y}_2\text{SiO}_3\text{:Ce}$  for blue.
13. (Original) The plasma display panel of Claim 3, wherein  
in each of the phosphor layers, said at least one Group IV element contained is a  
compound being distinct from any phosphor members included in the phosphor layer.

14. (Original) A plasma display panel in which a pair of substrates are disposed so as to oppose each other and have a discharge space therebetween and in which a dielectric protection layer including MgO and phosphor layers for red, green, and blue respectively are formed so as to face the discharge space, wherein

none of phosphor members included in the phosphor layers contain, in a composition thereof, any member of the group consisting of W, Mn, Fe, Co, and Ni.

15. (Original) The plasma display panel of Claim 14, wherein

none of the phosphor layers are made of a substance that contains any member of the group consisting of W, Mn, Fe, Co, and Ni.

16. (Original) A plasma display panel in which a pair of substrates are disposed so as to oppose each other and have a discharge space therebetween and in which a dielectric protection layer including MgO and phosphor layers for red, green, and blue respectively are formed so as to face the discharge space, wherein

each of the phosphor layers contains at least one transition metal.

17. (Original) The plasma display panel of Claim 16, wherein

a content ratio of said at least one transition metal in each of the phosphor layers is no larger than 30,000 mass ppm.

18. (Original) The plasma display panel of Claim 16, wherein

a content ratio of said at least one transition metal in each of the phosphor layers is within a range between 500 mass ppm and 30,000 mass ppm inclusive.

19. (Original) The plasma display panel of Claim 16, wherein

a phosphor member included in at least one of the phosphor layers contains, in a composition thereof, at least one transition metal.

20. (Original) The plasma display panel of Claim 16, wherein  
said at least one transition metal is selected from the group consisting of W, Mn, Fe,  
Co, and Ni.
21. (Original) The plasma display panel of Claim 20, wherein  
a content ratio of said at least one transition metal in each of the phosphor layers is within  
a range between 300 mass ppm and 120,000 mass ppm inclusive, and  
the content ratio is substantially same for all of the phosphor layers.
22. (Original) The plasma display panel of Claim 21, wherein  
variations among the phosphor layers with respect to the content ratio of said at least  
one transition metal are no larger than 40,000 mass ppm.
23. (Original) The plasma display panel of Claim 21, wherein  
for each of the phosphor layers, a phosphor member containing, in a composition  
thereof, at least one transition metal is selected so as to be included in the phosphor layer.
24. (Original) The plasma display panel of Claim 23, wherein  
said at least one transition metal contained in the composition of the phosphor member is  
in common with all of the phosphor layers.
25. (Original) A plasma display panel in which a pair of substrates are disposed so as to  
oppose each other and have a discharge space therebetween and in which a dielectric protection  
layer including MgO and phosphor layers for red, green, and blue respectively are formed so as  
to face the discharge space, wherein  
none of phosphor members included in the phosphor layers contain, in a composition  
thereof, any member of the group consisting of alkali metals and alkaline earth metals other than  
Mg.

26. (Original) The plasma display panel of Claim 25, wherein  
none of the phosphor layers are made of a substance that contains any member of the group consisting of alkali metals and alkaline earth metals other than Mg.
27. (Original) A plasma display panel in which a pair of substrates are disposed so as to oppose each other and have a discharge space therebetween and in which a dielectric protection layer including MgO and phosphor layers for red, green, and blue respectively are formed so as to face the discharge space, wherein  
each of the phosphor layers contains at least one member of the group consisting of alkali metals and alkaline earth metals other than Mg.
28. (Original) The plasma display panel of Claim 27, wherein  
a total content ratio of said at least one member in each of the phosphor layers is no larger than 60,000 mass ppm.
29. (Original) The plasma display panel of Claim 27, wherein  
a total content ratio of said at least one member in each of the phosphor layers is within a range between 1,000 mass ppm and 60,000 mass ppm inclusive.
30. (Original) The plasma display panel of Claim 29, wherein  
a phosphor member included in at least one of the phosphor layers contains, in a composition thereof, at least one member of the group consisting of alkali metals and alkaline earth metals other than Mg.
31. (Original) The plasma display panel of Claim 27, wherein  
a total content ratio of said at least one member in each of the phosphor layers is within a range between 300 mass ppm and 120,000 mass ppm inclusive, and  
the total content ratio is substantially same for all of the phosphor layers.

32. (Original) The plasma display panel of Claim 31, wherein variations among the phosphor layers with respect to the total content ratio of said at least one member are no larger than 40,000 mass ppm.
33. (Original) The plasma display panel of Claim 31, wherein for each of the phosphor layers, a phosphor member containing, in a composition thereof, at least one member of the group consisting of alkali metals and alkaline earth metals other than Mg is selected so as to be included in the phosphor layer.
34. (Original) The plasma display panel of Claim 31, wherein said at least one member contained in the composition of the phosphor member is in common with all of the phosphor layers.
35. (Original) A plasma display panel in which a pair of substrates are disposed so as to oppose each other and have a discharge space therebetween and in which a dielectric protection layer including MgO and phosphor layers for red, green, and blue respectively are formed so as to face the discharge space, wherein none of phosphor members included in the phosphor layers contain, in a composition thereof, any member of the group consisting of Group IV elements, W, Mn, Fe, Co, Ni, alkali metals, and alkaline earth metals other than Mg.
36. (Original) The plasma display panel of Claim 35, wherein none of the phosphor layers are made of a substance that contains any member of the group consisting of Group IV elements, W, Mn, Fe, Co, Ni, alkali metals, and alkaline earth metals other than Mg.
37. (Currently Amended) The plasma display panel of ~~any of Claims 1, 3, 14, 16, 25, 27, and 35~~ Claim 1, wherein the dielectric protection layer contains at least one Group IV element.

38. (Original) The plasma display panel of Claim 37, wherein  
a content ratio of said at least one Group IV element in the dielectric protection layer is  
within a range between 500 mass ppm and 2,000 mass ppm inclusive.
39. (Currently Amended) The plasma display panel of ~~any of Claims 1, 3, 14, 16, 25, 27, and~~  
~~35~~ Claim 1, wherein  
the dielectric protection layer contains at least one transition metal.
40. (Original) The plasma display panel of Claim 39, wherein  
a content ratio of said at least one transition metal in the dielectric protection layer is  
within a range between 1,500 mass ppm and 6,000 mass ppm.
41. (Currently Amended) The plasma display panel of ~~any of Claims 1, 3, 14, 16, 25, 27, and~~  
~~35~~ Claim 1, wherein  
the dielectric protection layer contains at least one member of the group consisting of  
alkali metals and alkaline earth metals.
42. (Currently Amended) The plasma display panel of ~~any of Claims 3, 16, and 27~~ Claim 3,  
wherein  
at least part of a surface of one or more of the phosphor layers facing the discharge  
space is covered with a phosphor protection layer, the phosphor protection layer (i) having an  
ultraviolet ray transmittance rate of 80 % or higher, and (ii) having a function of inhibiting one or  
more of elements included in the one or more phosphor layers that are to degrade discharge  
properties of the dielectric protection layer from dispersing into the discharge space.
43. (Original) The plasma display panel of Claim 42, wherein  
any of the phosphor layers whose surface facing the discharge space is covered by the  
phosphor protection layer contains one or more of (i) at least one Group IV element of no less  
than 1,000 mass ppm (ii) at least one transition metal of no less than 30,000 mass ppm, and (iii)  
at least one alkali metal or alkaline earth metal other than Mg of no less than 60,000 mass ppm.

- 44. (Original) The plasma display panel of Claim 42, wherein the phosphor protection layer covers the surfaces of all the phosphor layers.
- 45. (Original) The plasma display panel of Claim 42, wherein a main component of the phosphor protection layer is  $\text{MgF}_2$ .
- 46. (Original) The plasma display panel of Claim 42, wherein the phosphor protection layer has a lamination structure in which a first layer whose main component is  $\text{MgO}$  and a second layer whose main component is  $\text{MgF}_2$  are laminated, and the first layer faces the discharge space.
- 47. (Original) The plasma display panel of Claim 46, wherein a thickness of the first layer is smaller than a thickness of the second layer.
- 48. (New) The plasma display panel of Claim 3, wherein said Group IV element is Si.
- 49. (New) The plasma display panel of Claim 3, wherein the dielectric protection layer contains at least one Group IV element.
- 50. (New) The plasma display panel of Claim 14, wherein the dielectric protection layer contains at least one Group IV element.
- 51. (New) The plasma display panel of Claim 16, wherein the dielectric protection layer contains at least one Group IV element.
- 52. (New) The plasma display panel of Claim 25, wherein the dielectric protection layer contains at least one Group IV element.

- 53. (New) The plasma display panel of Claim 27, wherein  
the dielectric protection layer contains at least one Group IV element.
- 54. (New) The plasma display panel of Claim 35, wherein  
the dielectric protection layer contains at least one Group IV element.
- 55. (New) The plasma display panel of Claim 3, wherein  
the dielectric protection layer contains at least one transition metal.
- 56. (New) The plasma display panel of Claim 14, wherein  
the dielectric protection layer contains at least one transition metal.
- 57. (New) The plasma display panel of Claim 16, wherein  
the dielectric protection layer contains at least one transition metal.
- 58. (New) The plasma display panel of Claim 25, wherein  
the dielectric protection layer contains at least one transition metal.
- 59. (New) The plasma display panel of Claim 27, wherein  
the dielectric protection layer contains at least one transition metal.
- 60. (New) The plasma display panel of Claim 35, wherein  
the dielectric protection layer contains at least one transition metal.
- 61. (New) The plasma display panel of Claim 3, wherein  
the dielectric protection layer contains at least one member of the group  
consisting of alkali metals and alkaline earth metals.

62. (New) The plasma display panel of Claim 14, wherein  
the dielectric protection layer contains at least one member of the group  
consisting of alkali metals and alkaline earth metals.
63. (New) The plasma display panel of Claim 16, wherein  
the dielectric protection layer contains at least one member of the group  
consisting of alkali metals and alkaline earth metals.
64. (New) The plasma display panel of Claim 25, wherein  
the dielectric protection layer contains at least one member of the group  
consisting of alkali metals and alkaline earth metals.
65. (New) The plasma display panel of Claim 27, wherein  
the dielectric protection layer contains at least one member of the group  
consisting of alkali metals and alkaline earth metals.
66. (New) The plasma display panel of Claim 35, wherein  
the dielectric protection layer contains at least one member of the group  
consisting of alkali metals and alkaline earth metals.
67. (New) The plasma display panel of Claim 16, wherein  
at least part of a surface of one or more of the phosphor layers facing the discharge  
space is covered with a phosphor protection layer, the phosphor protection layer (i) having an  
ultraviolet ray transmittance rate of 80 % or higher, and (ii) having a function of inhibiting one or  
more of elements included in the one or more phosphor layers that are to degrade discharge  
properties of the dielectric protection layer from dispersing into the discharge space.

68. (New) The plasma display panel of Claim 27, wherein

at least part of a surface of one or more of the phosphor layers facing the discharge space is covered with a phosphor protection layer, the phosphor protection layer (i) having an ultraviolet ray transmittance rate of 80 % or higher, and (ii) having a function of inhibiting one or more of elements included in the one or more phosphor layers that are to degrade discharge properties of the dielectric protection layer from dispersing into the discharge space.